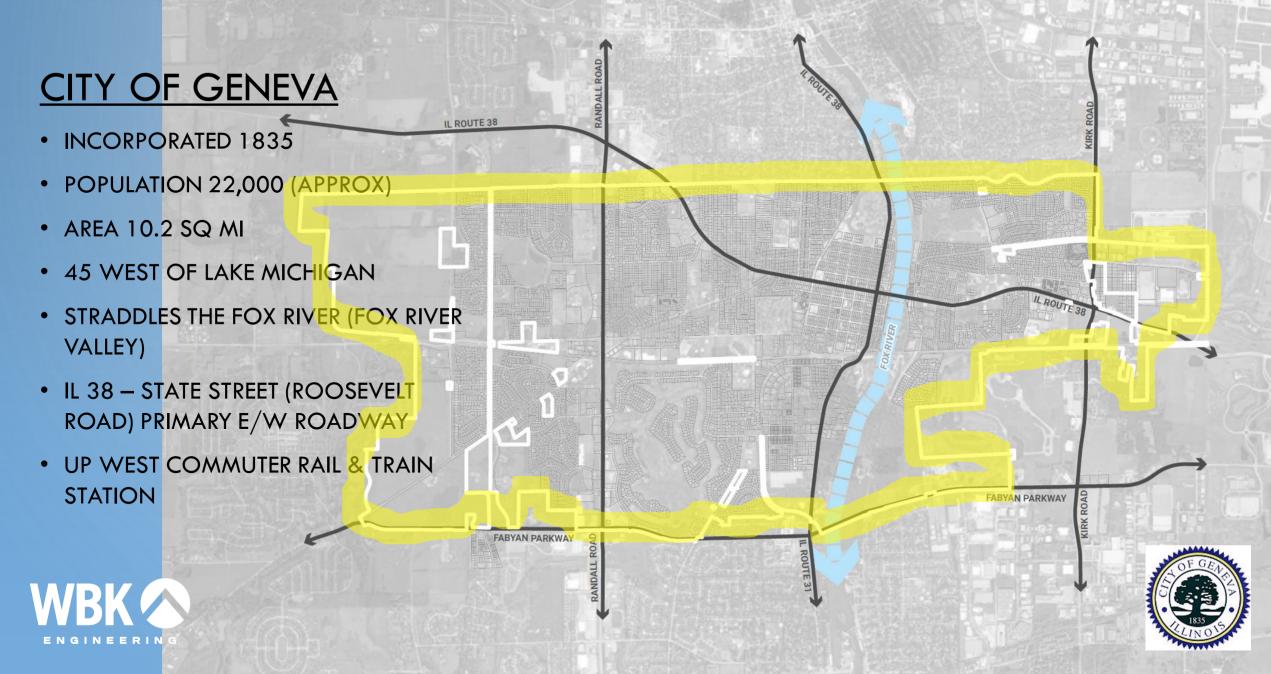
# IASFM CITY OF GENEVA WATERSHED STUDY "BUILDING COMMUNITY RESILIENCE"

TUESDAY, MARCH 8, 2022





#### **COMMUNITY RESPONSE TO CHANGES IN RAINFALL DATA AND "LEGACY" INFRASTRUCTURE**



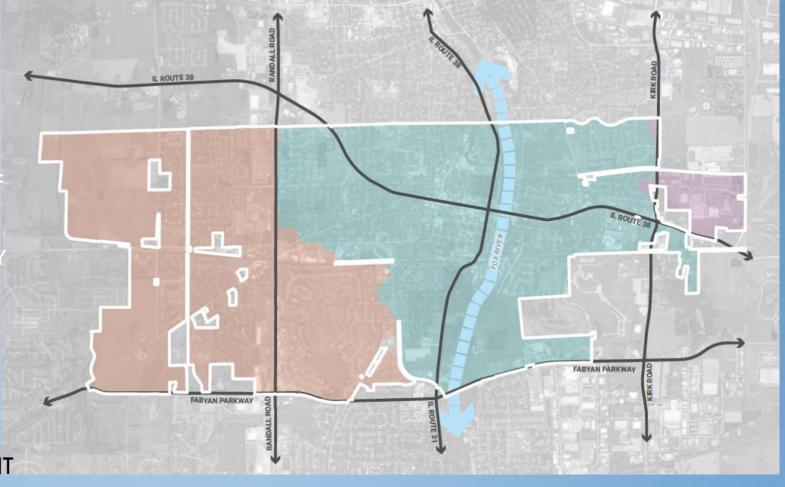
## **MHA**s

- PRIOR EVALUATION OF STORMWATER UTILITY
- CLEAR DEFINITION & PRIORITIZATION OF DRAINAGE CHALLENGES
  - REPORTING CONSISTENCY AND APATHY
  - RAINFALL EVENT FREQUENCY
- NEED FOR CAPITAL PLANNING AND BUDGETING

 GENERAL PERCEPTION - NO SIGNIFICANT NEIGHBORHOOD FLOODING (RELATIVE TERMS)

CLIMATE CHANGE









- CAPITAL PLAN FOR DRAINAGE INFRASTRUCTURE
  - PROJECTS / ENGINEERING
  - FINANCIAL / BUDGET
- IMPROVED PROCESSES FOR DATA COLLECTION
- COMMUNITY ENGAGEMENT COMMUNICATION
- IMPROVED PLANNING & DECISION MAKING
  - PW STAFF
  - CITY COUNCIL

COMMUNITY RESILIENCE

	Proposed Improvements						1									_
Drainage Study Area	Improvement Description	Phase - Duration	Total Projec	Cost	Design Budget (12%)	Construction Budget	Τ	2022/2023	2	1023/2024	2024/202	!5	2025/2026	2026/2027	B List	
Cheever Ave	High Capacity Inlets	1 yr	\$	-	\$ -	\$	-T								\$ -	Drop from study
Crawford Avenue	Replace existing culverts w/ 2-30" diameter RCP culverts. Ditch grading and riprap	1 уг	\$ 85	,000	\$ 10,680	\$ 78,3	20 \$	10,680	\$	78,320						design preceeds construction - private property construction
Forest View	15" diameter storm sewer extension with additional drainage structures	1 уг	\$ 9.	,000	\$ 11,640	\$ 85,3	60 \$	11,640	\$	85,360						design preceeds construction – IDOT permit
	Televise the primary "trunk" storm sewer to identify condition	1 уг	\$ 25	,000	\$ -	\$ 25,0	OD \$	25,000								no design, in house bid and management
Geneva High School	Construct storm sewer within ROW with pavement maintenance & construct laterals to rear yard areas based on observed drainage concerns	Multi- Year 10- 20 yr	\$ 2,52.	,000	\$ 303,240	\$ 2,223,7	60 \$	168,467	\$	168,467	\$ 168,	167	\$ 168,467	\$ 168,467	\$ 1,684,667	design and construct in same year with street program
Gray Street	12" storm sewer extension and a side yard swale between lot 612 and lot 602	1 уг	\$ 6	,000	\$ 7,680	\$ 56,3	20		\$	7,680	\$ 56,	320				design preceeds construction - private property construction
Kansas Street	Inlet and grade swale	1 уг	\$ 8	,000	\$ 16,000	\$ 65,0	00		\$	16,000	\$ 65,	000				design preceeds construction - two locations rear yard access
	Televise the primary "trunk" storm sewer to identify condition	1 уг	\$ 20	,000	\$ -	\$ 10,0	OD \$	10,000								no design, in house bid and management
	Construct storm sewer within ROW with															

City of Geneva Capital Plan

LIVERABLES

,											
,	ı	Existing Conditions		Proposed Improver	ments			Benefits and R			
Drainage Study Area	Area Description	Problem Statement	Innundation Type	Improvement Description	Phase - Duration	Total Project Cost	Complexity (H,M,L)	Schedule from "5 Yr. Plan" tab	Land Rights (Y,N,M)	Parcels Benefitted	Cost / Parcel
Cheever Ave	Major roadwway sag location where the Geneva Golf Club tributary to the Fox River crosses Cheever Avenue	Roadway innundation and inlet clogging	Roadway	Culvert replacement or enlargement - possibly multi cell	2 yr	\$ -	н	Drop from study	М	2	\$ -
Crawford Avenue	Crawford Avenue at 8th Avenue - local roadway intersection	Roadway innundation yard innundation	Roadway, Yard	Replace existing culverts w/ 2-30" diameter RCP culverts. Ditch grading and riprap	1 yr	\$ 89,000	м	design preceeds construction - private property construction	Υ	4	\$ 22,250
Forest View	Rear Yards west of IL 31 between Forest View and Fargo Blvd.	Yard Innundation	Yard	15" diameter storm sewer extension with additional drainage structures	1 yr	\$ 97,000	м	design preceeds construction - IDOT permit	Υ	4	\$ 24,250
	Large area consisting of several neighborhoods	Prolonged yard innundation, residential impacts related to sump		Televise the primary "trunk" storm sewer to identify condition Construct storm sewer within ROW with	1 yr	\$ 25,000	L	no design, in house bid and management	N		
Geneva High School	north of IL 38 and west of Anderson Avenue	pump reliability, sanitary sewer backups, roadway longevity, yard maintenance	Roadway, Yard	pavement maintenance & construct laterals to rear yard areas based on observed drainage concerns	Multi-Year 10-20 yr	\$ 2,527,000	м	design and construct in same year with street program	Υ	540	\$ 4,680
Gray Street	Rear yards between Gray and Eklund / Wilson to Edison Streets	Yard Innundation prolonged ponding	Yard	12" storm sewer extension and a side yard swale between lot 612 and lot 602	1 yr	\$ 64,000	ι	design preceeds construction - private property construction	Υ	4	\$ 16,000
Kansas Street	Kansas at Oak Street	Yard innundation	Yard	Inlet and grade swale	1 yr	\$ 81,000	м	design preceeds construction - two locations rear yard access	Υ	9	\$ 9,000
				Televise the primary "trunk" storm sewer to identify condition	1 yr	\$ 10,000	L	no design, in house bid and management	N		
Maple and Sherman	Neighborhoods south of IL 38 between West Street and Pine	Yard Innundation prolonged ponding	Roadway, Yard, Prolonged basin innundation	Construct storm sewer within ROW with pavement maintenance & construct laterals to rear yard areas based on observed drainage concerns	Multi-Year 10-20 yr	\$ 570,000	м	design and constrct in same year with street program	Υ	122	\$ 4,672
				Improve basin outlet and basin underdrain		\$ 170,000	l	8-list - SSA Contribution design preceeds construction -	N	9	\$ 18,889
	West of Randall Road and generally south of	Roadway innundation, agricultural debris and overland flow through		Gleneagles Drive overflow improvements	1yr & Cum.	\$ 340,000		private property access reconstruction, KDOT Coordination design preceeds construction -	Y	67	\$ 5,075
Miller Road	Miller Road. Residential (Wildwood sub & Randall Commercial)	yards and emergency overflow improvements	Roadway, Yard	Miller Road sag conveyance	1 yr & cum	\$ 240,000	м	potential access on private property	М	48	\$ 5,000
				Ag field debris management	1 yr	\$ 290,000	н	B-list, future development will facilitate resolution split into three separate projects -	Υ	8	\$ 36,250
Pheasant Run Place	Fargo Boulevard and RR ROW area to	Yard Innundation prolonged ponding, excessive surface flow.	Yard	Improve upstream catchment at Fargo Boulevard & extend storm sewer with stilling	1 vr & cum	\$ 141.000		Fargo, Pheasant Run Place Basin, 88 ROW debris management	Υ	8	\$ 17.625

Drainage Study Area	Improvement Description	Duration	Total Project Co	st (129	%)	Budget	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	B List	a
Cheever Ave	High Capacity Inlets	1 yr	\$	- \$	-	\$ -						\$ -	Drop from study
Crawford Avenue	Replace existing culverts w/ 2-30" diameter RCP culverts. Ditch grading and riprap	1 уг	\$ 89,00	<b>xo</b> \$	10,680	\$ 78,320	\$ 10,680	\$ 78,320					design preceeds construction - private property construction
Forest View	15" diameter storm sewer extension with additional drainage structures	1 уг	\$ 97,00	xo \$	11,640	\$ 85,360	\$ 11,640	\$ 85,360					design preceeds construction - IDOT permit
	Televise the primary "trunk" storm sewer to identify condition	1 уг	\$ 25,00	oo \$	-	\$ 25,000	\$ 25,000						no design, in house bid and management
Geneva High School	pavement maintenance & construct laterals to rear yard areas based on observed drainage concerns	Multi- Year 10- 20 yr	\$ 2,527,00	<b>ж</b> \$	303,240	\$ 2,223,760	\$ 168,467	\$ 168,467	\$ 168,467	\$ 168,467	\$ 168,467	\$ 1,684,667	design and construct in same year with street program
Gray Street	12" storm sewer extension and a side yard swale between lot 612 and lot 602	1 уг	\$ 64,00	9 <b>0</b> \$	7,680	\$ 56,320		\$ 7,680	\$ 56,320				design preceeds construction – private property construction
Kansas Street	Inlet and grade swale	1 уг	\$ 81,00	<b>10</b> \$	16,000	\$ 65,000		\$ 16,000	\$ 65,000				design preceeds construction - two locations rear yard access
	Televise the primary "trunk" storm sewer to identify condition	1 уг	\$ 10,00	<b>xo</b> \$	-	\$ 10,000	\$ 10,000						no design, in house bid and management
	Construct storm sewer within ROW with												



O2
INVESTIGATION & DISCOVERY

O4
CAPITAL PLANNING

O5
MAINTENANCE & FOLLOW-UP

O1
PROJECT KICK-OFF

O3
ALTERNATIVES & SOLUTIONS

O4
CAPITAL PLANNING

O5
MAINTENANCE & FOLLOW-UP

O5
FINAL REPORT

**HOM**<sup>§</sup>

- COMMUNITY OUTREACH
- TECHNICAL EVALUATION
- FINANCIAL SOLUTIONS





## COMMUNITY ENGAGEMENT

#### WEB BASED OUTREACH

- CITY WFB SITE
- SOCIAL PINPOINT
- OPEN HOUSE
- MAY 2020 RAINFALL EVENT
  - BOOTS ON THE GROUND
  - SMARTSHEET EVENT TRACKER
  - GIS DATA CAPTURE POTENTIAL
- INSTITUTIONAL KNOWLEDGE

#### Geneva Watershed Study 2020-2021 Event Tracker



ent Event d	d salas	Event Name	Date of Entry (Observation	Time of Observation	Ad dresso or Location	Flooding Observed or Reported	Sammery Observations	Observed By	Oher Present	Site Visit Requested by	Politow up receded	Priority	Respondent Name	ReapandentPhone	Respondente-mall	Respondent Contact Pref	Study Flank	Erol Status
			071500		2004 Furgo	Yari	tal recrysal sec.	Britan Danille				•						
			070000		Awd Shikkin	Storre Book	mai and weel basins pand (tile up and drains about, work or Kitt Root. Check mattrior		Res Statalone 650-			•						
			110500		1400 Sherood Laze	Tari	Drahage van affecting two horses crossing Wiledom Anemas Lockers books					-	Rodrey Hebare					
	_		LONGWOO		9005 Harrard Dillan	Charl Yard	Exceeding report there FAA effect entirely bird and creates lake bestellt states.	Drive CARer				_	Jity Perm	890-054-0058				
			anana		207+Rallatora Drha			Brita Danille										
			1000000		SIGNIAM ATME	Yari	Recoll fore Western America biological and possibly biol backup	Britan Danille										
0315120	úla l	H15 2000																
			051500	700374	1012Fargoliká	Street	White parting is love paint disease in past way. Starrest returns a feed adjacent to pasting	John Willia				•						
			091900	Ziúsze	Hill Fargolika	Yani	Witherposeiting in depressional areas on most eliteral street in peoples eliteraris. Horsellal except to	John Willia										
			050000		I+I0Make CI	Yari	Positing voter	Britas Danille	Horacourar,									
	_		0520000		2011 Arosteau Cl	Yari	Wherpooling is good	Britan Danilla	Horseotter									_
	-		0522700		SIGS Harrison SI	Yari	Overtoni Novopolii blocked by objede dischel systeel neighbore desce	Ella Oraca	Getta Daniile									
	_				2001/12/64	Tari												
			0500000				are stiffcore need and - Coherie plagged and cleared by General Staff. Respecting emp. pemp.	Jaren Chillren			Redied caled							
			058700		SIGCALAND CIT	Yani	Overhal Nov path blacket by reflight building earliers	Ella Crasco	Brita Daniile			•						
			0500000		SSSYNAMIAN CINA	Tan		Ella Crasco		City Web Service		•						
			051900		705 Dales S	Street	Solver   Pat Floring	Brita Salber		Whiterrecaled - so								
			05821930	9 90 pre	717 Yiloolaari Ana	Yari	Simp discharges to mangard populationage. A samp decharge the is in place but and disclinate. It	Grey Chinart	Horseotter	Garage, disf	X contact	-						
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	_											-						
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			0000000		715Ylanisani Ase	Yari	Positiv os salboral Com El papark salbotar envisores			Garage Staff								
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			091900	040374	Dread on Rail and Page Med	Stead	Cital Allor State-so cellal	John Willia										
			091900	9 10 374	Earl Ste Sports Complex Starts	Store Study Street York	Wherepilles cells' overlow with an east elimetoric complex partie across pails to replating this	John Willia										
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			091900	000374	220 MaKining Area	Yari	Positing in depression in boot 3100	John Willia				-						2
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_	-		05853000		600 Formal View Str	Hores Yani	Viblerpooling in goal	Britan Danille	Horseotter,			-						9
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2 10-1402	as c	Open Hones			_ · · · ·													
			1001100		Hüldspla-Cord	Hotes Yard	Stackyani dasale desense backyp	Open Horse					Andres Wyer	690-010-0000	angerill (Figgraf core	wal		
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_	-		100100		204 M. Barrall St.	Hotes Yari	Spelical ratifalization facility in term	Char Horse					Harry Klah	000-000-00-1	lana communication	phone or parent		_
	_		100100		2732 Palarece Cost	Slove Book		Open Horse					Links of He Call		ijanika Quraker			
			1001100		SITCHARD MA	Hores Yard	Makes to destina chap seed raw codes this people of g	Open Horse					David La Palorentio	690-0007975	invillage cross to be great core	and orphose		
			100100		HOS Grout Street	Yani	York flooding, has gallen stores, subposed tol grouing hopesting floor	Open Horse					bab forer					
			100180		SOS Jefferon St.	Tari	Realing in investmental backgood, led described the leadanting value	Open Horse					Ann Eisteria		marajanjang placa	eral		
_	_		100100		SOON Plea Stead	Yani	Flooting in that and reary sail deads pour drainage	Open Hotels							It dierran Gratebahren aus			
			100100		SIGS, 68 Street	Horse Steel Yard	Erste gale blacked & collect to too erstal to drafe value	Open Horse					Trank Kellemoa	0120-000-0210	it awrea @nt rhibatus.com			

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Fox River	33	8	3	0
Kress Creek	5	0	0	0



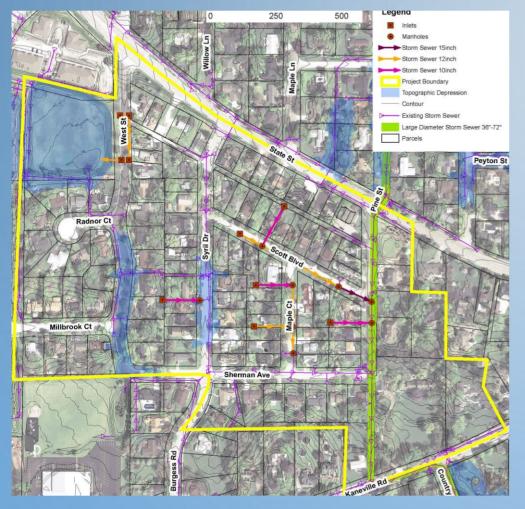


verview & Study Development









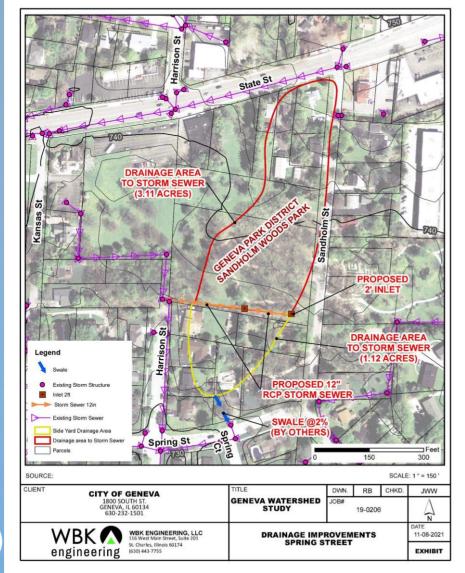
# STUDY AREA ANALYSIS

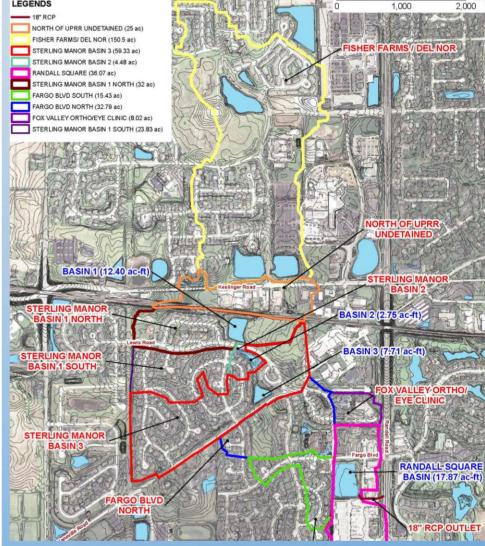
- LEVEL OF ANALYSIS VARIED BETWEEN THE STUDY AREAS, BUT OVERALL CONCEPTUAL IN NATURE.
- UTILIZED RATIONAL METHOD, AND HEC-HMS FOR HYDROLOGY (BULLETIN 75 RAINFALL), AND HY-8 AND STORM SEWER ANALYSIS SOFTWARE FOR HYDRAULICS.
- DELIVERABLE FOR EACH STUDY AREA WAS A SHORT REPORT WITH EXECUTIVE SUMMARY, DESCRIPTION OF PROBLEM, ANALYSIS PERFORMED, PROPOSED ALTERNATIVES, AND RECOMMENDED ALTERNATIVE. THE REPORT ALSO INCLUDED A CONCEPTUAL COST ESTIMATE.



# DIFFERENT LEVELS OF ANALYSIS

LEGENDS





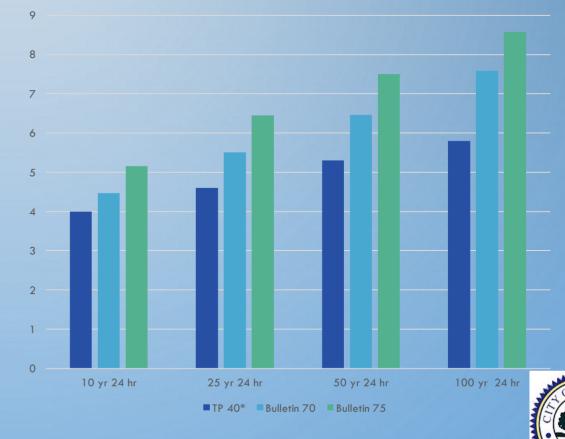




# RAINFALL DATA

Return Periods(yr. )	Duration (hr.)	TP 40*	Bulletin 70	Bulletin 75
10	1	2	2.1	2.42
10	24	4	4.47	5.15
25	1	2.3	2.59	3.03
25	24	4.6	5.51	6.45
50	1	2.5	3.04	3.53
30	24	5.3	6.46	7.5
100	1	2.75	3.56	4.03
100	24	5.8	7.58	8.57

#### Raingfall Depth Comparison







Purpose of study was to provide the City a comprehensive list of problem areas with conceptual costs for evaluating funding options.

# ECONOMIC ANALYSIS



NewGen Strategies provided in depth analysis of possible funding options for the improvements--within a 5-year and 10-year horizon.



Analysis included reviewing current funding, and City budgets and forecasting out annual expenditures.



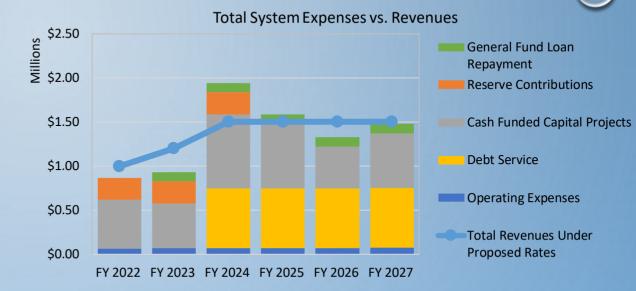


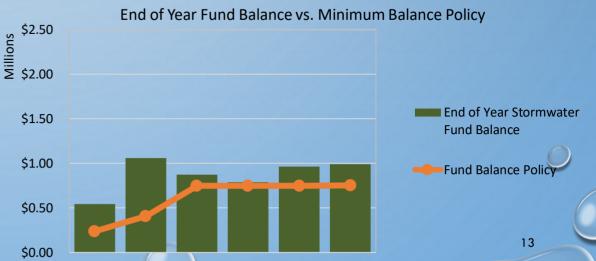
# GENERAL STORMWATER UTILITY FINANCE ISSUES

- LEGAL AUTHORITY: TAXES VS. FEES, REASONABLE BASIS FOR FEE CALCULATION
  - CHURCH OF PEACE V. CITY OF ROCK ISLAND: STORMWATER FEE WAS NOT A TAX, AND COULD BE LEVIED ON TAX-EXEMPT PROPERTIES
  - GREEN V. VILLAGE OF WINNETKA: IMPERVIOUS AREA IS A REASONABLE BASIS FOR A STORMWATER FEE
  - NON-HOME RULE: VILLAGE OF MORTON, CITY OF EAST MOLINE, VILLAGE OF VILLA PARK, AND VILLAGE OF RICHTON PARK, VILLAGE OF LIBERTYVILLE
- ESTABLISHMENT OF A STORMWATER UTILITY VS. ACCOUNTING WITHIN GENERAL/WATER/SEWER FUND
  - A SEPARATE STORMWATER ENTERPRISE FUND ALLOWS CLEAR IDENTIFICATION OF COSTS AND REVENUES.
- FEE STRUCTURE: HOW WILL COSTS BE ALLOCATED TO THE SYSTEM'S CUSTOMERS?
  - FEE PER UTILITY ACCOUNT, RATE BASED ON WATER USAGE, FEE BASED ON IMPERVIOUS AREA, TAX RATE PER TAXABLE ASSESSMENT
- CREDITS / APPEALS
  - WHAT CREDITS / INCENTIVES ARE GOING TO BE OFFERED?
  - ON WHAT BASIS SHOULD APPEALS TO A FEE BE CONSIDERED?

# CITY OF GENEVA - STORMWATER FINANCIAL ANALYSIS

- \$500K "SEED" LOAN FROM CITY GENERAL FUND TO ESTABLISH STORMWATER FUND
  - PAID BACK AT NOMINAL INTEREST
- DEVELOPMENT OF SEVERAL RATE ALTERNATIVES:
  - FIXED FEE PER WATER CUSTOMER ACCOUNT
  - FIXED FEE PER PARCEL
  - RATE PER \$100 ASSESSED VALUE
- MINIMUM FUND BALANCE POLICY RECOMMENDATION = 25% O&M + 1 YEAR DEBT SERVICE
- IMPERVIOUS AREA FEE NOT CONSIDERED AT THIS TIME. MAY LOOK AT ACCURACY OF GIS DATA IF CONSIDERED





FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027

### CONCLUSION

- CONFIRMED THAT GENEVA DOES NOT HAVE MAJOR STORMWATER ISSUES THROUGHOUT THE CITY.
- DEVELOPED CONCEPTUAL SOLUTIONS WITH COSTS TO ESTABLISH A LONG RANGE CAPITAL PLAN.
- REPORT WILL BE A DECISION MAKING TOOL USED TO DETERMINE HOW STORMWATER IMPROVEMENT PROJECTS WILL BE FUNDED.
- ENHANCED COMMUNITY RESILIENCE AS A PRODUCT OF THE STUDY

#### **REMAINING ITEMS**

- FINALIZE 5 AND 10-YEAR STORMWATER CAPITAL IMPROVEMENT PLAN (PROJECTS).
- PRESENT TO CITY.





## **QUESTIONS?**

#### **WBK ENGINEERING**

Greg Chismark P.E. John Witte P.E., CFM

gchismark@wbkengineering.com jwitte@wbkengineering.com

#### **CITY OF GENEVA CONTACTS**

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